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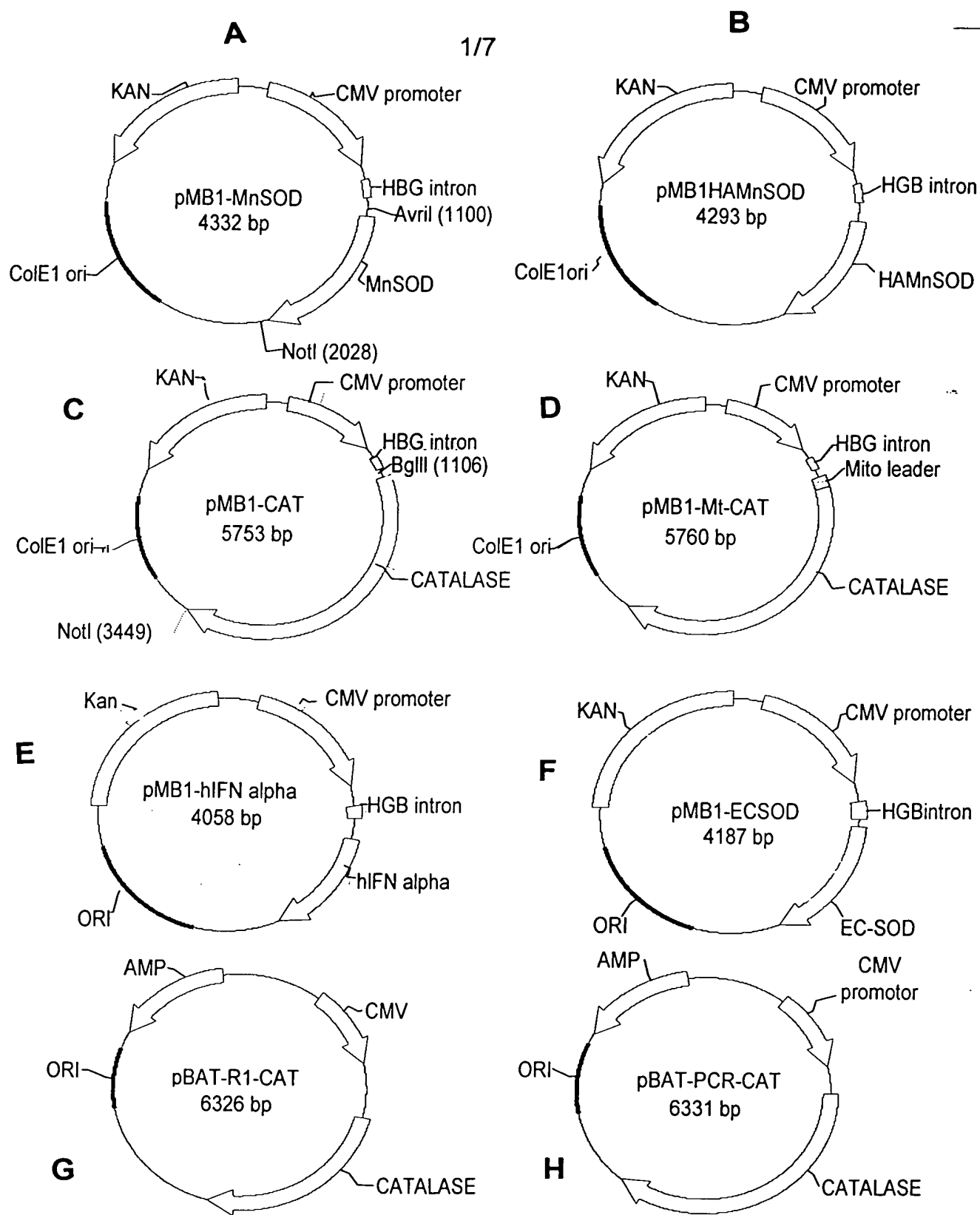


FIG. 1

**pMB1-MnSOD**

DNA element	Accession Number	Corresponding to Accession number (bp)	Element location on plasmid
CMV promoter	X03922	471-1162	158-849 = 691
Human Beta-globin intron	AY260710	332-497	928-1093= 165
Human cDNA for MnSOD	Y00985	2-781	1145-1990= 846
SV40 late-gene polyadenylation signal	M99358	347-503	2050-2206 =157
ColE1 ori from pBluescript SK +	X52328	1158-1825	2585-3241 = 656
Kanamycin resistance gene	PVAX1 (Invitrogen, CA)	1226-2020	3487-4281 = 794

pMB1-Catalase

DNA element	Accession Number	Corresponding base pairs	Element location on plasmid
CMV promoter	X03922	471-1162	158-849 = 691
Human Beta-globin intron	AY260710	332-497	928-1093= 165
Human cDNA for Catalase	NM_001752	11-2270	1106-3449= 2344
SV40 late-gene polyadenylation signal	M99358	347-503	3651-3808=157
ColE1 ori from pBluescript SK +	X52328	1158-1825	4006-4662 = 656
Kanamycin resistance gene	pVAX1 (Invitrogen, CA)	1226-2020	4908-5702 = 794

pMB1-HA-MnSOD

DNA element	Accession Number	Corresponding to Accession number (bp)	Element location on plasmid
CMV promoter	X03922	471-1162	158-849 = 691
Human Beta-globin intron	AY260710	332-497	928-1093= 165
HA epitope tag			
Human cDNA for MnSOD	Y00985	2-781	1150-1848= 699
SV40 late-gene polyadenylation signal	M99358	347-503	2050-2206 =157
ColE1 ori from pBluescript SK +	X52328	1158-1825	2546 - 3202= 656
Kanamycin resistance gene	PVAX1 (Invitrogen, CA)	1226-2020	3348-4142 = 794

pMB1-hIFNalpha

DNA element	Accession Number	Corresponding base pairs	Element location on plasmid
CMV promoter	X03922	471-1162	158-849 = 691
Human Beta-globin intron	AY260710	332-497	928-1093= 165
Human cDNA for human IFN alpha	J00207	551-1077	1141-1747= 607
SV40 late-gene polyadenylation signal	M99358	347-503	1831-1988=157
ColE1 ori from pBluescript SK +	X52328	1158-1825	2186-2860 = 656
Kanamycin resistance gene	pVAX1 (Invitrogen, CA)	1226-2020	3088-4012= 794

pMB1-MitoCAT

DNA element	Accession Number	Corresponding base pairs	Element location on plasmid
KAN	pVAX1	1226-2020	
CMV IE (human cytomegalovirus IE1 gene promoter region)	X03922	471-1162	
HGB intron (human beta globin chain gene)	AY260710	332-497	
SV40 polyA (simian virus 40)	M99358	345-503	
ColE1 ori (Bluescript)		1158-1825	
Mitochondrial leader sequence (MnSOD)	BC016934	1100-1172	
CAT		1173-3419	

FIG. 11

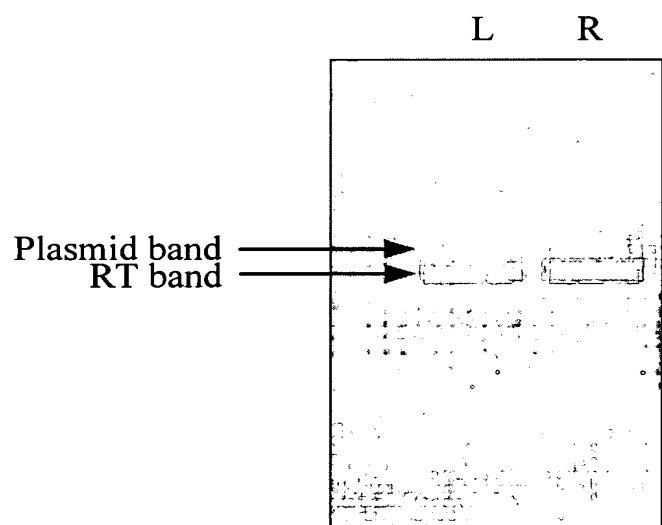


FIG. 2

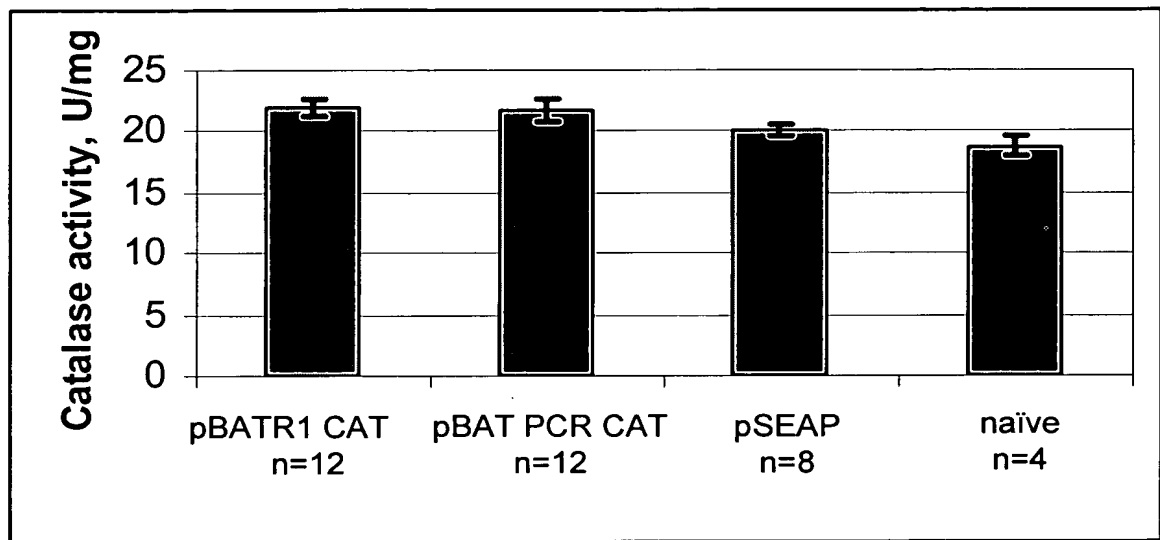


FIG. 3

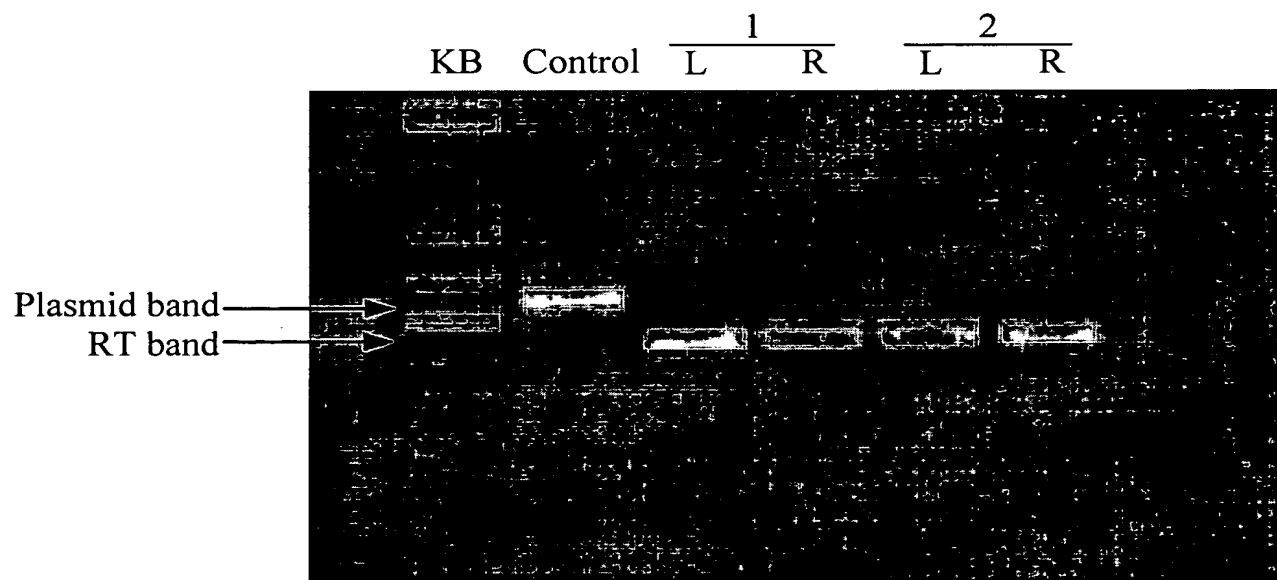
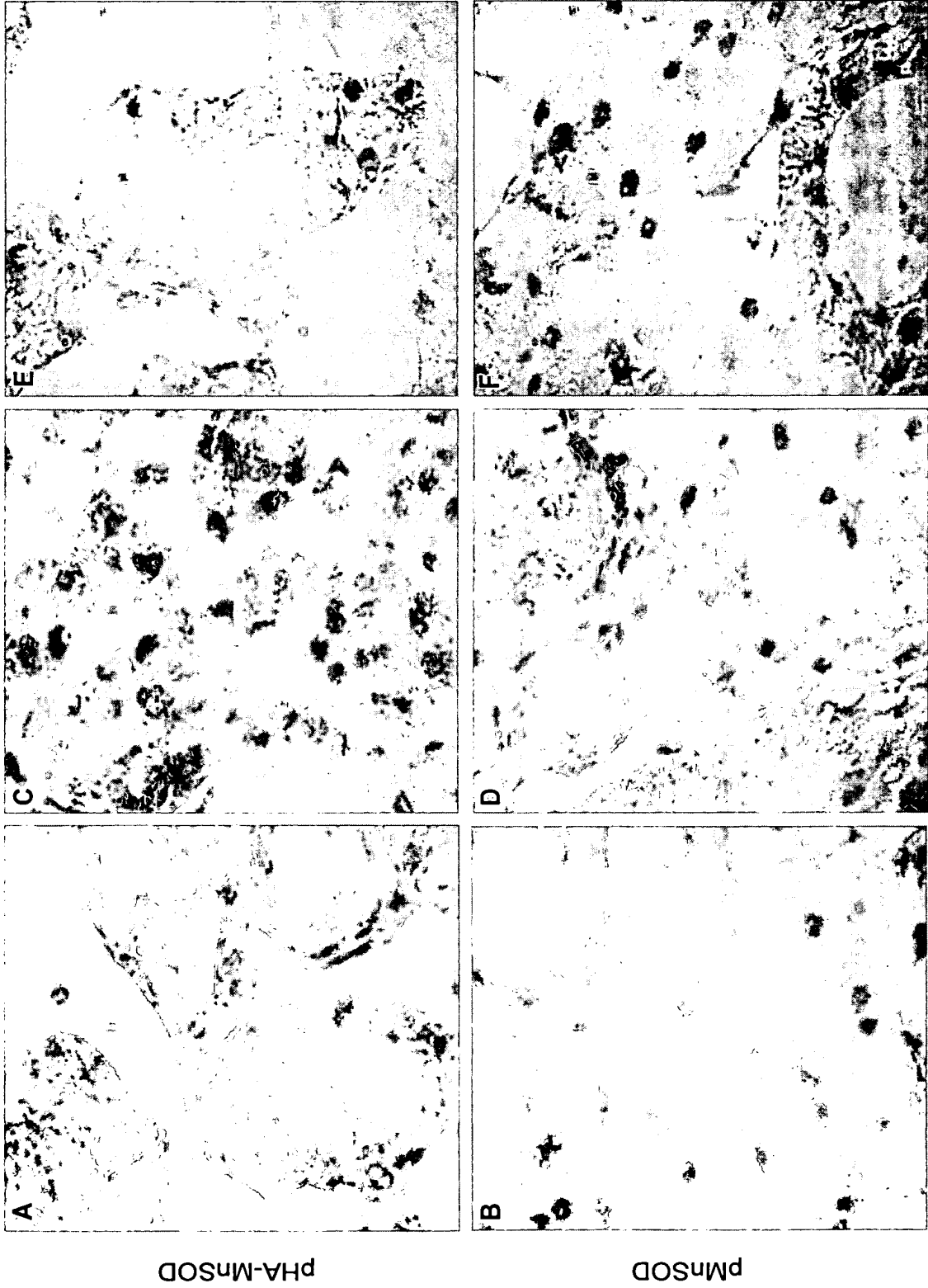


FIG. 4

Exp 1204-Frozen Sections



Normal IgG

X-MnSOD
Stained with

FIG. 5

X-HA

pMnSOD

PHA-MnSOD

Transfected with

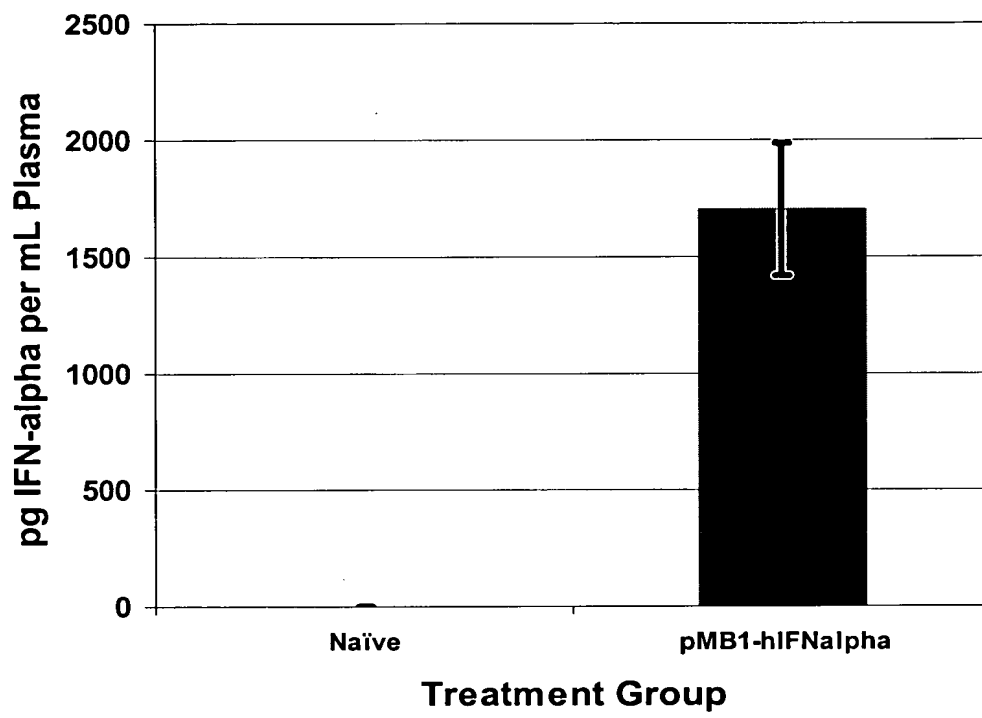


FIG 6